

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P237895

Luminaire Tested: **8VT2-LD5-16-DR100-W-UNV-L850-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237895
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-15)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8VT2-LD5-16-DR100-W-UNV-L850-CD2-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE WIDE DISTRIBUTION
8FT FIXTURE
Light Source: (448) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16152.0 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.58 / 1.57
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Semi-Direct

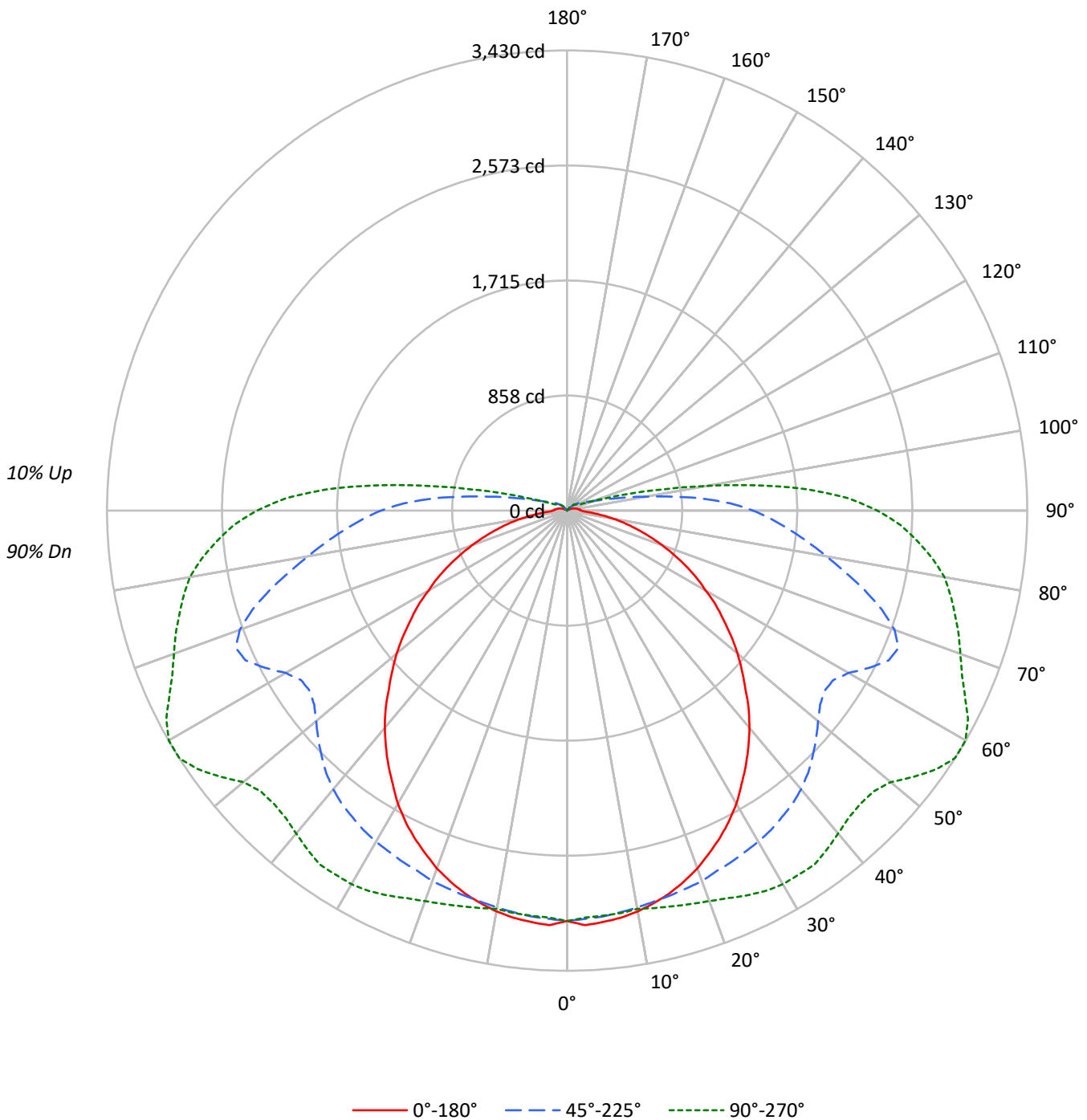
Input Watts (W): 117
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	101	94	88	83	97	91	85	80	85	80	76	79	75	72	74	71	68	65
2	90	79	71	63	86	77	69	62	71	64	59	66	61	56	62	57	53	50
3	81	68	58	50	77	66	57	49	61	53	47	57	50	45	53	47	43	40
4	73	59	49	41	70	57	48	40	53	45	39	50	43	37	46	40	35	33
5	67	52	42	35	64	51	41	34	47	39	33	44	37	31	41	35	30	27
6	62	47	37	30	59	45	36	29	42	34	28	40	32	27	37	31	26	23
7	57	42	33	26	55	41	32	25	38	30	24	36	29	24	34	27	23	20
8	53	38	29	23	51	37	28	22	35	27	22	33	26	21	31	25	20	18
9	49	35	26	20	47	34	26	20	32	24	19	30	23	19	28	22	18	16
10	46	32	24	18	44	31	23	18	30	22	17	28	21	17	26	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7903	7903	7903
5°	7969	7710	7639
10°	7930	7548	7469
15°	7856	7445	7495
20°	7748	7405	7594
25°	7604	7382	7808
30°	7440	7428	8045
35°	7220	7489	8229
40°	7010	7559	8280
45°	6728	7567	8469
50°	6508	7563	9055
55°	6239	7776	10253
60°	5960	8731	11229
65°	5716	10522	11661
70°	5388	11631	12295
75°	5021	11859	13315
80°	4702	12070	14698
85°	4347	12826	16148



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.2	1.8
10°-20°	846.9	5.2
20°-30°	1345.9	8.3
30°-40°	1739.7	10.8
40°-50°	1963.2	12.2
50°-60°	2152.2	13.3
60°-70°	2296.7	14.2
70°-80°	2153.0	13.3
80°-90°	1734.0	10.7
90°-100°	1079.7	6.7
100°-110°	350.0	2.2
110°-120°	114.2	0.7
120°-130°	58.5	0.4
130°-140°	24.1	0.1
140°-150°	3.7	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2482.9	15.4
0°-40°	4222.7	26.1
0°-60°	8338.1	51.6
0°-90°	14521.8	89.9
90°-120°	1543.9	9.6
90°-150°	1630.2	10.1
90°-180°	1630.0	10.1
0°-180°	16152.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3059	3059	3059	3059	3059	
5°	3078	3068	3038	3042	3032	292
15°	2953	2953	2970	3046	3053	832
25°	2692	2728	2892	3095	3165	1240
35°	2321	2453	2790	3110	3218	1452
45°	1878	2109	2589	2945	3091	1454
55°	1425	1728	2343	3112	3360	1277
65°	975	1367	2644	3201	3271	965
75°	541	1323	2296	2777	2994	576
85°	180	905	1668	2364	2620	185
90°	104	676	1386	2059	2313	59
95°	91	471	1020	1596	1806	71
105°	62	170	337	437	488	64
115°	30	76	153	136	117	31
125°	13	25	91	93	81	12
135°	4	0	36	55	53	4
145°	2	0	0	11	11	1
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2
2.5°	3093.1	3084.6	3078.3	3078.3	3078.3	3076.2	3076.2	3074.0	3069.8	3057.1	3046.5
5°	3078.3	3074.0	3067.7	3067.7	3067.7	3067.7	3067.7	3063.4	3055.0	3046.5	3038.0
7.5°	3061.3	3057.1	3048.6	3050.7	3044.4	3046.5	3044.4	3040.1	3038.0	3031.6	3021.0
10°	3033.8	3029.5	3021.0	3023.2	3018.9	3021.0	3021.0	3023.2	3018.9	3012.6	3004.1
12.5°	2995.6	2993.5	2989.2	2987.1	2991.4	2995.6	2997.7	2993.5	2989.2	2987.1	2985.0
15°	2953.2	2949.0	2944.7	2946.8	2953.2	2953.2	2959.6	2959.6	2959.6	2961.7	2970.2
17.5°	2898.1	2896.0	2891.7	2896.0	2900.2	2902.3	2910.8	2915.0	2917.2	2934.1	2953.2
20°	2838.7	2834.5	2830.2	2834.5	2840.8	2849.3	2857.8	2870.5	2889.6	2917.2	2938.4
22.5°	2764.5	2762.4	2760.3	2764.5	2775.1	2787.8	2802.7	2830.2	2859.9	2889.6	2908.7
25°	2692.4	2688.2	2686.1	2694.6	2715.8	2728.5	2747.6	2783.6	2817.5	2855.7	2891.7
27.5°	2611.9	2599.2	2609.8	2618.2	2645.8	2662.8	2686.1	2732.7	2770.9	2813.3	2868.4
30°	2522.8	2516.5	2516.5	2535.6	2571.6	2597.0	2624.6	2677.6	2722.1	2781.5	2849.3
32.5°	2419.0	2421.1	2425.3	2450.8	2499.5	2529.2	2552.5	2614.0	2671.2	2745.4	2823.9
35°	2321.4	2317.2	2327.8	2363.8	2419.0	2452.9	2484.7	2550.4	2622.5	2705.2	2790.0
37.5°	2219.7	2215.4	2230.3	2272.7	2332.0	2368.1	2404.1	2486.8	2569.5	2662.8	2758.2
40°	2113.7	2113.7	2130.6	2177.3	2243.0	2281.2	2323.6	2416.8	2508.0	2609.8	2711.5
42.5°	2003.4	1999.2	2020.4	2084.0	2158.2	2196.4	2247.2	2344.8	2448.6	2550.4	2656.4
45°	1878.3	1895.3	1916.5	1980.1	2056.4	2109.4	2168.8	2272.7	2378.7	2486.8	2588.6
47.5°	1768.1	1780.8	1810.5	1878.3	1967.4	2016.2	2079.8	2190.0	2304.5	2408.4	2516.5
50°	1657.9	1664.2	1704.5	1772.3	1865.6	1927.1	1988.6	2101.0	2213.3	2332.0	2442.3
52.5°	1543.4	1545.5	1594.3	1660.0	1770.2	1831.7	1888.9	2007.7	2128.5	2251.5	2376.6
55°	1424.7	1431.0	1481.9	1554.0	1670.6	1727.8	1791.4	1914.4	2045.8	2185.8	2342.6
57.5°	1316.5	1322.9	1371.7	1450.1	1570.9	1632.4	1693.9	1827.5	1971.6	2145.5	2351.1
60°	1193.6	1210.5	1255.1	1344.1	1467.1	1528.5	1600.6	1749.0	1929.2	2160.3	2421.1
62.5°	1089.7	1093.9	1144.8	1242.3	1371.7	1439.5	1517.9	1698.1	1935.6	2226.0	2537.7
65°	975.2	985.8	1038.8	1149.1	1286.9	1367.4	1460.7	1691.8	1995.0	2340.5	2643.7
67.5°	860.7	877.7	941.3	1062.1	1221.1	1318.7	1437.4	1736.3	2090.4	2427.4	2673.4
70°	752.6	773.8	845.9	985.8	1176.6	1299.6	1452.2	1802.0	2156.1	2433.8	2597.0
72.5°	644.5	674.2	767.5	928.6	1159.7	1312.3	1486.1	1842.3	2141.2	2332.0	2461.4
75°	540.6	574.5	695.4	884.1	1157.5	1322.9	1498.9	1804.1	2016.2	2175.2	2296.0
77.5°	447.3	487.6	627.5	848.0	1142.7	1297.5	1439.5	1674.8	1850.8	1999.2	2122.2
80°	351.9	404.9	568.2	801.4	1070.6	1193.6	1310.2	1507.3	1666.3	1816.9	1961.0
82.5°	260.8	330.7	504.6	731.4	947.7	1057.9	1149.1	1329.3	1490.4	1647.3	1812.6
85°	180.2	260.8	428.2	623.3	809.9	905.3	994.3	1166.0	1325.0	1490.4	1668.5
87.5°	125.1	205.6	356.2	527.9	699.6	780.2	860.7	1026.1	1185.1	1348.3	1530.7
90°	103.9	163.2	296.8	447.3	600.0	676.3	752.6	903.1	1060.0	1216.9	1386.5
92.5°	97.5	135.7	243.8	375.2	513.0	576.6	644.5	784.4	924.3	1074.9	1219.0
95°	91.2	108.1	192.9	298.9	415.5	470.6	527.9	638.1	765.3	888.3	1019.7
97.5°	82.7	89.0	148.4	233.2	326.5	373.1	415.5	504.6	604.2	697.5	790.8
100°	76.3	76.3	112.4	178.1	252.3	286.2	322.2	396.4	462.2	532.1	597.8
102.5°	67.8	67.8	86.9	133.6	192.9	220.5	252.3	303.2	351.9	400.7	447.3
105°	61.5	59.4	70.0	103.9	146.3	169.6	192.9	235.3	273.5	305.3	337.1
107.5°	53.0	53.0	57.2	82.7	116.6	135.7	152.6	188.7	218.4	241.7	258.6
110°	44.5	44.5	46.6	65.7	95.4	110.2	127.2	154.8	178.1	197.2	207.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	38.2	38.2	36.0	53.0	78.4	93.3	106.0	131.4	152.6	165.4	173.8
115°	29.7	29.7	29.7	40.3	63.6	76.3	89.0	112.4	133.6	146.3	152.6
117.5°	25.4	25.4	23.3	29.7	50.9	63.6	74.2	97.5	114.5	129.3	135.7
120°	19.1	19.1	19.1	19.1	38.2	50.9	61.5	82.7	99.6	112.4	118.7
122.5°	14.8	14.8	14.8	12.7	27.6	38.2	48.8	67.8	84.8	97.5	106.0
125°	12.7	10.6	10.6	10.6	17.0	25.4	36.0	53.0	67.8	82.7	91.2
127.5°	10.6	8.5	8.5	8.5	8.5	14.8	23.3	40.3	55.1	67.8	76.3
130°	8.5	6.4	6.4	6.4	4.2	8.5	14.8	27.6	42.4	53.0	61.5
132.5°	6.4	6.4	4.2	4.2	2.1	2.1	6.4	17.0	29.7	40.3	48.8
135°	4.2	4.2	4.2	2.1	2.1	0.0	0.0	8.5	19.1	27.6	36.0
137.5°	4.2	4.2	2.1	2.1	0.0	0.0	0.0	2.1	8.5	17.0	25.4
140°	4.2	2.1	2.1	2.1	0.0	0.0	0.0	0.0	2.1	8.5	14.8
142.5°	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
145°	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2
2.5°	3046.5	3048.6	3050.7	3050.7	3048.6	3048.6	3046.5	3042.2	3038.0	3035.9
5°	3031.6	3038.0	3042.2	3042.2	3042.2	3040.1	3040.1	3038.0	3033.8	3031.6
7.5°	3018.9	3029.5	3033.8	3031.6	3031.6	3031.6	3031.6	3033.8	3029.5	3027.4
10°	3006.2	3014.7	3023.2	3025.3	3027.4	3025.3	3025.3	3021.0	3018.9	3014.7
12.5°	2993.5	3008.3	3021.0	3031.6	3031.6	3031.6	3035.9	3042.2	3040.1	3033.8
15°	2982.9	3008.3	3023.2	3040.1	3046.5	3052.8	3055.0	3059.2	3052.8	3052.8
17.5°	2976.5	3010.4	3031.6	3048.6	3050.7	3059.2	3071.9	3078.3	3076.2	3074.0
20°	2965.9	3006.2	3035.9	3050.7	3061.3	3071.9	3088.9	3093.1	3097.4	3097.4
22.5°	2953.2	2997.7	3027.4	3061.3	3078.3	3088.9	3112.2	3124.9	3129.2	3127.0
25°	2942.6	2993.5	3038.0	3078.3	3095.2	3108.0	3137.6	3161.0	3165.2	3165.2
27.5°	2932.0	2991.4	3044.4	3097.4	3118.6	3133.4	3163.1	3186.4	3194.9	3197.0
30°	2921.4	2987.1	3050.7	3103.7	3129.2	3144.0	3177.9	3199.1	3216.1	3216.1
32.5°	2902.3	2982.9	3046.5	3103.7	3124.9	3150.4	3182.2	3205.5	3218.2	3216.1
35°	2883.2	2957.4	3029.5	3086.8	3110.1	3135.5	3173.7	3201.3	3209.7	3218.2
37.5°	2851.4	2929.9	3002.0	3059.2	3093.1	3114.3	3148.2	3169.4	3186.4	3182.2
40°	2809.0	2887.5	2961.7	3016.8	3046.5	3071.9	3110.1	3129.2	3144.0	3141.9
42.5°	2747.6	2836.6	2906.6	2965.9	2997.7	3023.2	3069.8	3086.8	3103.7	3105.8
45°	2686.1	2773.0	2851.4	2915.0	2944.7	2974.4	3031.6	3063.4	3084.6	3091.0
47.5°	2611.9	2709.4	2798.4	2885.4	2927.8	2965.9	3025.3	3069.8	3093.1	3097.4
50°	2550.4	2671.2	2781.5	2883.2	2936.2	2978.6	3059.2	3112.2	3137.6	3148.2
52.5°	2514.4	2660.6	2804.8	2936.2	2999.8	3052.8	3152.5	3211.9	3254.3	3258.5
55°	2520.7	2705.2	2885.4	3048.6	3112.2	3177.9	3269.1	3324.2	3360.3	3360.3
57.5°	2584.3	2804.8	3012.6	3163.1	3226.7	3277.6	3362.4	3398.4	3423.9	3430.2
60°	2698.8	2932.0	3112.2	3243.7	3286.1	3326.3	3373.0	3413.3	3423.9	3428.1
62.5°	2811.2	3010.4	3152.5	3243.7	3269.1	3303.0	3336.9	3360.3	3368.7	3368.7
65°	2870.5	3018.9	3105.8	3173.7	3201.3	3211.9	3247.9	3256.4	3275.5	3271.2
67.5°	2834.5	2929.9	2999.8	3057.1	3078.3	3099.5	3141.9	3163.1	3180.0	3184.3
70°	2711.5	2787.8	2862.0	2934.1	2961.7	2997.7	3048.6	3088.9	3108.0	3118.6
72.5°	2561.0	2652.2	2747.6	2834.5	2879.0	2912.9	2976.5	3029.5	3048.6	3059.2
75°	2406.2	2514.4	2624.6	2730.6	2777.2	2821.8	2898.1	2949.0	2982.9	2993.5
77.5°	2251.5	2382.9	2516.5	2637.3	2694.6	2741.2	2828.1	2883.2	2923.5	2927.8
80°	2107.3	2264.2	2412.6	2541.9	2599.2	2654.3	2741.2	2804.8	2826.0	2855.7
82.5°	1980.1	2143.4	2293.9	2429.6	2493.2	2541.9	2633.1	2698.8	2730.6	2747.6
85°	1842.3	2011.9	2164.6	2298.1	2363.8	2423.2	2508.0	2569.5	2614.0	2620.4
87.5°	1702.4	1872.0	2028.9	2166.7	2232.4	2287.5	2376.6	2435.9	2476.2	2488.9
90°	1554.0	1715.1	1865.6	2003.4	2058.6	2115.8	2200.6	2268.4	2310.8	2313.0
92.5°	1375.9	1530.7	1668.5	1797.8	1863.5	1905.9	1986.5	2056.4	2086.1	2098.8
95°	1149.1	1291.1	1422.5	1530.7	1596.4	1634.5	1713.0	1763.9	1797.8	1806.3
97.5°	901.0	1011.3	1117.3	1212.7	1261.4	1293.2	1356.8	1401.3	1452.2	1439.5
100°	678.4	739.9	816.2	877.7	913.7	934.9	981.6	1011.3	1040.9	1057.9
102.5°	491.8	538.5	572.4	604.2	629.6	650.9	686.9	697.5	706.0	727.2
105°	360.4	383.7	402.8	426.1	436.7	443.1	457.9	468.5	468.5	487.6
107.5°	271.4	282.0	290.4	303.2	303.2	309.5	309.5	311.6	318.0	313.8
110°	214.1	216.2	218.4	216.2	218.4	216.2	214.1	212.0	212.0	209.9



TEST NUMBER: P237895

CATALOG NUMBER: 8VT2-LD5-16-DR100-W-UNV-L850-CD2-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	178.1	176.0	173.8	167.5	165.4	161.1	159.0	154.8	150.5	150.5
115°	152.6	150.5	146.3	139.9	135.7	131.4	129.3	123.0	118.7	116.6
117.5°	135.7	133.6	129.3	123.0	120.8	116.6	112.4	106.0	101.8	99.6
120°	123.0	123.0	118.7	112.4	110.2	108.1	101.8	97.5	93.3	91.2
122.5°	110.2	110.2	108.1	103.9	101.8	99.6	95.4	91.2	86.9	86.9
125°	95.4	97.5	97.5	95.4	93.3	91.2	89.0	84.8	82.7	80.6
127.5°	82.7	84.8	86.9	86.9	84.8	84.8	80.6	78.4	76.3	76.3
130°	67.8	74.2	76.3	76.3	76.3	76.3	74.2	72.1	70.0	70.0
132.5°	55.1	59.4	63.6	65.7	65.7	65.7	63.6	63.6	61.5	61.5
135°	42.4	46.6	50.9	53.0	55.1	55.1	55.1	55.1	53.0	53.0
137.5°	31.8	36.0	40.3	42.4	42.4	44.5	44.5	44.5	42.4	42.4
140°	19.1	25.4	27.6	29.7	31.8	31.8	33.9	33.9	31.8	31.8
142.5°	10.6	14.8	17.0	19.1	21.2	21.2	23.3	21.2	21.2	21.2
145°	2.1	4.2	8.5	10.6	10.6	10.6	10.6	12.7	10.6	10.6
147.5°	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)